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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/007,583	12/05/2001	Ralf Bertram	DE920010035US1	3541
46583	7590	03/09/2007		
GREENBLUM & BERNSTEIN, P.L.C.			EXAMINER	
1950 ROLAND CLARKE PLACE			SHERR, CRISTINA O	
RESTON, VA 20191				
			ART UNIT	PAPER NUMBER
			3621	

SHORTENED STATUTORY PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE
3 MONTHS	03/09/2007	ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 03/09/2007.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com  
pto@gbpatent.com

**Office Action Summary**

Application No.

10/007,583

Applicant(s)

BERTRAM ET AL.

Examiner

Cristina Owen Sherr

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 30 November 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

**DETAILED ACTION**

1. This communication is in response to applicant's amendment filed November 30, 2006. Claims 1-19 are currently pending in this case.

***Priority***

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

***Response to Arguments***

3. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Herz (US 6,029,195).

6. Regarding claim 1 –

Herz discloses a computerized method for generating a recommendation of an item to an advisee, comprising the steps of: receiving a recommendation request comprising a selected item list from an advisee for a recommendation by a recommendation system (e.g. col 25 ln 46-62, col 3 ln 1-10); (note that if a user is requesting a recommendation, the recommendation must somehow be received, and that no one asks for a

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recommendation in a vacuum, but rather asks for a recommendation on a type or list of items, such as apples, history books, or romantic movies);

in response to the recommendation request, computing a plurality of similarity factors based on at least one advisee profile from at least one newly rated item and

determining which at least one user has already rated the item, wherein the advisee profile comprising a plurality of records, each record including a user identifier, an item identifier, and a rating value, such that each record is linked in a first and a second dimension (e.g. col 3 ln 7-10);

and items from the selected item list that indicate similarity between the advisee and a plurality of users of the recommendation system who have previously provided ratings of items from the selected item list (e.g. col 3 ln 1-3, col 6 ln 38-45)

selecting, from the plurality of users of the recommendation system, neighboring users to the advisee, according to the similarity factors (e.g. col 12 ln 25-27, col 20 ln 1-22);

generating a recommendation of at least one item of the selected item list items, according to the previously provided ratings of the at least one item plurality of items by the neighboring users (e.g. col 70 ln 1-7).

7. Herz does not utilize identical terminology with respect to the instant case, referring to shopping cart, for example and maps of similar items, and only one aspect or embodiment of Herz is thus a computer-implemented method of recommending items to a user. However, it would be obvious to one of ordinary skill in the art to adapt the invention in Herz for the uses in the instant invention in order to facilitate sales.

8. Regarding claim 2 –

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Herz discloses the method of claim 1, wherein all items upon which the step of computing depends are included in the selected item list (e.g. col 16 ln 34-48).

9. Regarding claim 3 –

Herz discloses the method of claim 2, wherein the recommendation of at least one item includes only items that are included in the selected item list (e.g. col 26 ln 22-45).

10. Regarding claim 4 –

Herz discloses the method of claim 1, wherein the step of selecting neighboring users excludes, any user whose similarity with the advisee is below a predetermined threshold (e.g. col 88 ln 8 - 37).

11. Regarding claim 5 –

Herz discloses the method of claim 1, wherein the step of computing and the step of selecting are executed substantially in parallel by inserting each newly computed similarity factor into a neighbor list in decreasing order of similarity and by limiting length of the neighbor list by excluding a user with lowest similarity if otherwise the neighbor list would exceed a predetermined length (e.g. col 18 ln 5-8).

12. Regarding claim 6 –

Herz discloses the method of claim 1, further including the step of caching identifiers of the neighboring users, associated similarity factors, and time stamps (e.g. col 5 ln 55-57). Although Herz does not utilize exactly the same criteria for filtering out users as in the instant case, it would be obvious to one of ordinary skill in the art to adapt Herz by merely choosing different criteria or characteristics.

13. Regarding claim 7 –

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Herz discloses a user profile for a recommendation system, comprising a plurality of records, each record including a user identifier, an item identifier, and a rating value, wherein each record is linked in a first and a second dimension, the first dimension linking records with a same user identifier in a sequence according to the item identifier, and the second dimension linking records with a same item identifier in a sequence according to the user identifier (e.g. col 39 ln 12-22, col 39 ln 1-11).

14. As above, Herz does not utilize identical terminology with respect to the instant case, referring to shopping cart, for example and maps of similar items, and only one aspect or embodiment of Herz is thus a computer-implemented method of recommending items to a user. However, it would be obvious to one of ordinary skill in the art to adapt the invention in Herz for the uses in the instant invention in order to facilitate sales.

15. Regarding claim 8-19 –

Claims 8-19 are rejected under the same criteria as above.

16. Examiner's note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may be applied as well. It is respectfully requested from the applicant, in preparing the responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention as well as the context of the passage as taught by the prior art or disclosed by the examiner.

***Conclusion***

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
18. Linden et al (US 6,266,649) disclose collaborative recommendations using item-to-item similarity mappings.
19. Smith et al (US 6,853,982) discloses content personalization based on actions performed during a current browsing session.
20. Petra et al (US 2004/0205065) discloses a system for creating and maintaining a database of information utilizing user opinions.
21. Linden et al (US 6,912,505) discloses use of product viewing histories of users to identify related products.
22. Petras et al (US 2001/0047290) discloses a system for creating and maintaining a database of information utilizing user opinions.
23. Amazon.com catapults electronic commerce to next level with powerful new features (Amazon News release, Sept. 23, 1997).
24. Epinions.com buying guide.
25. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cristina Owen Sherr whose telephone number is 571-272-6711. The examiner can normally be reached on 8:30-5:00 Monday through Friday.
26. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew J. Fischer can be reached on 571-272-6779. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

27. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



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